PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference UN1001.007P/MAI3	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No. PCT/AU2004/001160	International filing date (day/month/year) 27 August 2004	Priority date (day/month/year) 27 August 2003					
International Patent Classification (IPC) or national classification and IPC							
Int. CL. 7 G01B 9/02							
Applicant							
THE UNIVERSITY OF QUEEN	THE UNIVERSITY OF QUEENSLAND of all						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of 3	sheets, including this cover sheet.						
3. This report is also accompanied by ANN	,						
a. X (sent to the applicant and to the	International Bureau) a total of 5 sheets,	as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box. Relating to Sequence Listing (see Section 302 of the Administrative Instructions).							
4. This report contains indications relating							
X Box No. I Basis of the repor	1						
Box No. II Priority	Box No. II Priority						
Box No. III Non-establishmer	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
\mu_m/	and the state of t						
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain document							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of completion of	f.the report					
9 December 2004	20 October 2005						
Name and mailing address of the IPEA/AU	Authorized Officer						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRAL							
E-mail address: pct@ipaustralia.gov.au	WICHAEL HALI						
Faesimile No. (02) 6285 3929	Telephone No. (02)	DZG2 2479					

Form PCT/IPEA/409 (Cover-sheet) (January 2004)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001160

Bo	x No.	. <u>f</u>	Basis of	the report	
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 				
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
			internatio	nal search (under Rules-12.3 and 23.1 (b))	
			publicatio	on of the international application (under Rule 12.4)	
			internation	ual preliminary examination (under Rules 55.2 and/or 55.3)	
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report); the international application as originally filed/furnished				
	岗		cription:	approximate originally the original ori	
	ك			pages 1, 5, 6, 8, 9 as originally filed/furnished	
				pages* 7 received by this Authority on 27 June 2005 with the letter of 27 June 2005	
	ভি	the clai	 .	pages* 2-4 a received by this Authority on 12 October 2005 with the letter of 12 October 2005	
	X	ING CIA	11115.	pages 11, 13 as originally filed/furnished	
				pages* as amended (together with any statement) under Article 19	
				pages* 10, 12 received by this Authority on 12 October 2005 with the letter of 12 October 2005	
	EG.	the dra	niaa.	pages* received by this Authority on with the letter of	
	X	me dia	wings.	pages 1/5-5/5 as originally filed/furnished	
				pages* received by this Authority on with the letter of	
				pages* received by this Authority on with the letter of	
		a seque	nce listing	and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3;.		The arr	endments	have resulted in the cancellation of:	
			the desc	ription, pages	
			the clain	ns, Nos.	
			the draw	rings, sheets/figs	
			the sequ	ence listing (specify):	
			any table	e(s) related to the sequence listing (specify):	
4.			ince they	een established as if (some of) the amendments annexed to this report and listed below had not been have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule	
			the descr	ription, pages	
			the clain	ns, Nos.	
			the draw	ings, sheets/figs	
			the seque	ence listing (specify):	
			any tablo	c(s) related to the sequence listing (specify):	
•	Ifi	tein 4 app	dios, soma	or all of thusa sheets may be marked "superseded."	

Form PCT/IPEA/409 (Box No. 1) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001160

Box No. V Reasoned statement a citations and explanations sup		inventive step or industrial applicability;		
1. Statement				
Novelty (N)	Claims 1-31	YES		
	Claims -	NO		
Inventive step (IS)	Claims 1-31	YES		
	Claims -	NO		
Industrial applicability (IA)	Claims 1-31	YES		
	Clains -	·NO		

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purposes of this report:

D1 US:5995223 A

D2 US 6020963 A

Novelty (N)

Claims 1-31 meet the criteria set forth in PCT Article 33(2) for novelty. The prior art published before the priority date does not disclose splitting the input beam into orthogonally polarised first and second basis beams.

Inventive Step (IS)

Claims 1-31 meet the criteria set out in PCT Article 33(3) with regard to the requirement of Inventive Step because the prior art does not obviously suggest to a person skilled in the art splitting the input beam into orthogonally polarised first and second basis beams.

Industrial Applicability (IA)

The invention defined in the claims is considered to meet the requirements of Industrial Applicability under Article 33(4) of the PCT because it can be made by, or used in, industry.

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